



SAFETY DATA SHEET

Date of issue: February 2004
Revision date: August 2021

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

SULPHATE OF POTASH

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture: Fertilizer

1.3 Details of the supplier of the safety data sheet

Vitax Limited, Owen Street, Coalville LE67 3DE
Tel: +44 (0)1530 510060 Email: info@vitax.co.uk
Tel: +44 (0)1530 510060 (Office Hours)

1.4 Emergency Contact:

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

(Regulation (EC) No 1272/2008) Not classified.

2.2 Label elements

(Regulation (EC) No 1272/2008) No labelling applicable.

2.3 Other hazards Does not meet the criteria for classification as PBT or vPvB.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Chemical Name	CAS-No	EINECS-No. / ELINCS No	Concentration [%]	Classification
Potassium Sulphate (K_2SO_4)	7778-80-5	231-915-5	-	Not classified

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled: Remove person to fresh air and keep comfortable for breathing.
In case of skin contact: Wash skin with plenty of water.
In case of eye contact: In case of eye contact, rinse with water as a precaution.
If swallowed: If feeling unwell, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No additional information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.
Unsuitable extinguishing media: Strong water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Product decomposition may release toxic fumes. Sulphur oxides.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus. Complete protective clothing.
Other information: Do not allow run-off to enter drains or water courses. Dispose of waste in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions: Do not allow into drains or water courses.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Collect spillage. Avoid raising dust. Dispose of waste in accordance with official regulations.

6.4 Reference to other sections

No additional information available.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Safe handling: Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety procedures.



SAFETY DATA SHEET

Date of issue: February 2004
Revision date: August 2021

Hygiene measures: Do not eat, drink or smoke when using this product. Wash hands after handling product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas: Store in dry, well-ventilated area. Keep away from food, drink and animal feedingsuffs.

7.3 Specific end uses Fertiliser

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Potassium sulphate (Soluble) (7778-80-5)

DNELs

Worker

Systemic long-term effects, dermal: 21.3 mg/kg/d

Systemic long-term effects, inhalation: 36.7 mg/m³

General Population

Systemic long-term effects, oral: 12.8 mg/kg/d

Systemic long-term effects, dermal: 12.8 mg/kg/d

Systemic long-term effects, inhalative: 11.1 mg/m³

PNECs

Water (freshwater): 0.68 mg/litre

(marine water): 0.068 mg/litre

(intermittent, fresh water) 6.8 mg/litre

Sewage treatment plants (STP) 10 mg/litre

United Kingdom WEL TWA (mg/m³)

Respirable: 4 mg/m³. Inhalable: 10 mg/m³

8.2 Exposure controls

Appropriate engineering controls: Good ventilation of the workplace required.

Hand protection: Wear chemical resistant protective gloves. EN 150 374

Eye protection: In case of dust production wear safety goggles. EN 166.

Skin and body protection: Protective clothing (with elasticated cuffs and closed neck). EN 340

Respiratory protection: Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material (Type FFP1 in accordance with EN 143).

Environmental exposure controls: Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Solid
Appearance: Crystalline powder. Powder. Pellet.
Molecular mass: 208 g/mol
Colour: Colourless. white.
Odour: odourless.
Odour threshold: No data available
pH: 7 -9 (100g/l 20 deg C)
Relative evaporation rate (butylacetate=1): No data available
Melting point: 1067 deg C
Freezing point: No data available
Boiling point: 1689 deg C
Flash point: Not applicable
Self ignition temperature: Not applicable
Decomposition temperature: >700 deg C
Flammability (solid, gas): Not flammable
Vapour pressure: No data available
Relative vapour density at 20°C: No data available
Density: 2.662 g/cm³
Solubility: Water: 108 g/l
Log Pow: Not applicable
Log Kow: Not applicable
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available

SAFETY DATA SHEET

Date of issue: February 2004
Revision date: August 2021

Explosive properties:	Not explosive.
Oxidising properties:	Not flammable.
Explosive limits:	No data available.
9.2 Other information	Bulk density 1200 -1600 kg/m ³ .
10. STABILITY AND REACTIVITY	
10.1 Reactivity	Stable under normal conditions. On exposure to high temperature, may decompose, releasing toxic fumes. Sulphur oxides.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
10.4 Conditions to avoid	No additional information available.
10.5 Incompatible materials	No additional information available.
10.6 Hazardous decomposition products	No additional information available.
11. TOXICOLOGICAL INFORMATION	
11.1 Information on toxicological effects	
Acute toxicity:	Not classified
Oral	LD50 oral rat > 2000 mg/kg
Dermal	LD50 oral rat 6600 mg/kg
Inhalation	>0.0036 mg/l/4hr (read across CAS 7783-20-2)
Skin corrosion/irritation:	Not classified.
Serious eye damage/irritation:	Not classified.
Respiratory or skin sensitisation:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
Specific target organ toxicity (single exposure):	Not classified
Specific target organ toxicity (repeated exposure):	Not classified
Aspiration hazard:	Not classified
12. ECOLOGICAL INFORMATION	
12.1 Toxicity	
LC50 fishes l	680 mg/l (96 Hours – Pimephales promelas)
EC50 Daphnia 1	720 mg/l (48 Hours - Daphnia magna)
EC50 (algae)	>100 mg/l (72 Hours – Desmodesmus subspicatus)
12.2 Persistence and degradability	
Persistence and degradability	Not applicable.
12.3 Bioaccumulative potential	
Log Pow	Not applicable
Log Kow	Not applicable
Bioaccumulative potential	Not applicable.
12.4 Mobility in soil	
Potassium sulfate (Soluble) (7778-80-5)	
Ecology - soil	Not applicable.
12.5 Results of PBT and vPvB assessment	Does not meet criteria.
12.6 Other adverse effects	No additional information available
13. DISPOSAL CONSIDERATIONS	
13.1 Waste treatment methods	
Regional legislation (waste):	Disposal must be done according to official regulations.
EU List of Waste code:	06 03 14, solid salts and solutions other than those in 06 03 11 and 06 03 13
14. TRANSPORT INFORMATION	
14.1 Land transport ADR	
Tunnel restriction code:	Not a dangerous substance as defined in the above regulations. Not relevant
14.2 Sea transport	
ADNR	Not classified as dangerous in the meaning of transport regulations.
IMDG	Not classified as dangerous in the meaning of transport regulations.
14.3 Air transport IATA-DGR	Not classified as dangerous in the meaning of transport regulations.

SAFETY DATA SHEET

Date of issue: February 2004
Revision date: August 2021

14.4 Special precautions for user Not relevant
14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations No REACH Annex XVII restrictions
Contains no REACH candidate substance
15.1.2. National regulations No additional information available.
15.2 Chemical Safety Assessment No additional information available.

16. OTHER INFORMATION

Reason for revision: Replaces version dated October 2017. Revised hazard classification- all sections updated.

Abbreviations and acronyms: ADN: European Agreement concerning international carriage of Dangerous goods by Inland waterways
ADR: European Agreement concerning international carriage of Dangerous goods by Road
AF: Assessment factor
BCF: Bioconcentration factor
Bw: Body weight
CAS: Chemical Abstracts Service
CLP: Classification, labelling, packaging
CSR: Chemical Safety Report
DMEL: Derived maximum effect level
DNEL: Derivative No effect Level
EC: European Community
ELV: Emission limit values
EN: European Norm
EUH: European Hazard Statement
EWC: European Waste catalogue
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
LC50: Median lethal concentration
LD50 : Median lethal dose
NOAEL: No-observed-adverse-effect-level
NOEC: No observed effect concentration
NOEL: No observed effect level
OEL: Operator exposure level
PBT: Persistent, bioaccumulative, Toxic
PEC: Predicted effect level
PNEC: Predicted No effect Concentration
REACH: Registration, evaluation and authorisation of chemicals
RID: Regulations concerning the international carriage of dangerous goods by rail
STEL: Short Term Exposure Limit
TWA: Time weighted average
vPvB: Very persistent, very bioaccumulative.

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.